Avocent®

Rack Mount LCD KVM Assembly

Installer/User Guide

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Chinese Notification

声　　明

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Rack Mount
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Instructions

This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Dangerous Voltage

This symbol is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

Power On

This symbol indicates the principal on/off switch is in the on position.

Power Off

This symbol indicates the principal on/off switch is in the off position.

Protective Grounding Terminal

This symbol indicates a terminal which must be connected to earth ground prior to making any other connections to the equipment.

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CHAPTER 1

Installation

Introduction

Supporting both USB and PS/2 interfaces, the Rack Mount LCD KVM Assembly can control up to 16 servers. Built-in keyboard, video and mouse (KVM) peripherals not only save valuable cabinet space, but also enable direct channel selection via on-screen display (OSD) or keyboard hotkeys.

Time-out and password protection offer secure access to the Rack Mount LCD KVM Assembly, while the hot-plug feature allows for uninterrupted switching and usage.

NOTE: The Rack Mount LCD KVM Assembly is also referred to as “the assembly” interchangeably throughout this installer guide.

Getting Started

Before installing your Rack Mount LCD KVM Assembly, refer to the following list to ensure you have all items that shipped with the appliance, as well as other items necessary for proper installation.

Supplied with the Rack Mount LCD KVM Assembly

- Rack mount kit
- Power cable
- Ground terminator

Installation

If you are installing your Rack Mount LCD KVM Assembly to a PS/2 interface, you must turn off all servers before connecting your appliance to a server for proper installation. USB interfaces do not need to be turned off before installation.

NOTE: Linux users may experience mouse failure if hot-plugging directly to the assembly. If your mouse becomes locked, use the mouse reset hotkeys to reset your mouse, or turn the Linux server off before connecting it to the assembly.

Introduction of I/O ports for each model

NOTE: For Taiwan customers only, 16-port models have the following model numbers: AP17KMM16-101 and AP17KMM16-109; 8-port models have the following model numbers: AP17KMM8-101 and AP17KMM8-109; and single-port models have the following model numbers: AP17KMM-101 and AP17KMM-109.

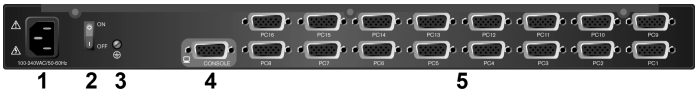

Figure 1.1: Rear View of a 16-port Rack Mount LCD KVM Assembly

Table 1.1: Description of Figure 1.1

Number	Description
1	Power input socket
2	Power switch
3	Ground
4	Console port
5	PC connection ports (16)

Figure 1.2: Rear View of an 8-port Rack Mount LCD KVM Assembly

Table 1.2: Description of Figure 1.2

Number	Description
1	Power input socket
2	Power switch

Table 1.2: Description of Figure 1.2 (Continued)

Number	Description
3	Ground
4	Console port
5	PC connection ports (8)

Figure 1.3: Rear View of a single-port Rack Mount LCD KVM Assembly

Table 1.3: Description of Figure 1.3

Number	Description
1	Power input socket
2	Power switch
3	Ground
4	PC connection port (1)

CAUTION: To reduce the risk of electric shock or damage to your equipment:
- Plug the power cord into a grounded (earthed) outlet that is easily accessible at all times.
- Disconnect the power from the unit by unplugging the power cord from either the electrical outlet or the unit.

Rack Mounting Your Rack Mount LCD KVM Assembly

Your Rack Mount LCD KVM Assembly may be rack mounted using brackets. Before installing the assembly, stabilize the rack in a permanent location. Be sure to rack your Rack Mount LCD KVM Assembly in an area of the cabinet that will allow you to utilize the LCD monitor, keyboard and mouse funtions.

CAUTION: Rack Loading - Overloading or uneven loading of racks may result in shelf or rack failure, causing damage to equipment and possible personal injury. Do not exceed your rack load rating.

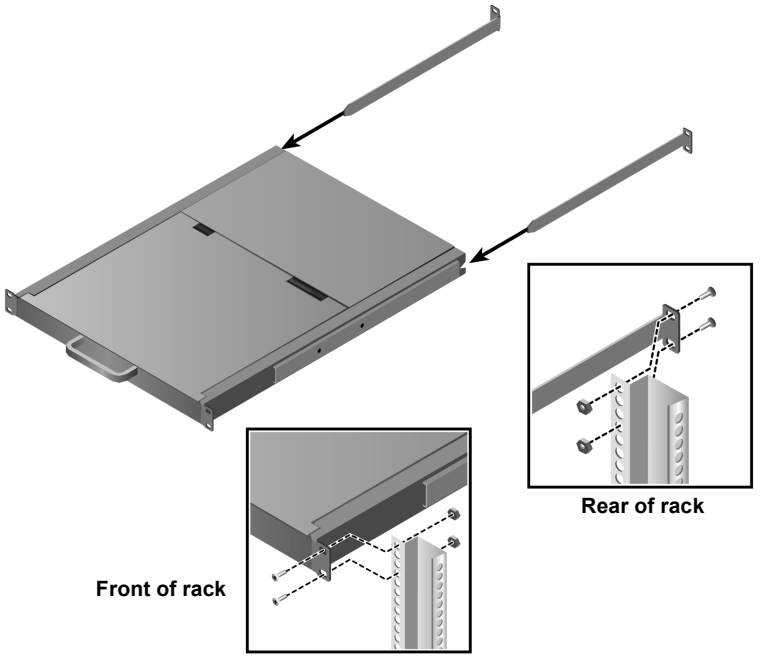

Figure 1.4: Rack mounting the assembly

To mount the Rack Mount LCD KVM Assembly:

1. Attach the front of the Rack Mount LCD KVM Assembly to the front of your rack cabinet using the screws provided.
2. Standing behind the assembly, slide the mounting brackets into the slots on the side of the unit.
3. Secure the brackets to the rear of the rack using the screws provided.

To connect the Rack Mount LCD KVM Assembly:

1. Plug one end of the supplied power cord into the back of the assembly and the other end into an appropriate power source.
2. Connect your servers to an available port on the rear of your Rack Mount LCD KVM Assembly using the appropriate cable.

3. Turn on all connected servers. Keyboard and mouse recognition is now activated and your Rack Mount LCD KVM Assembly is ready for operation.

After installation, turn on your Rack Mount LCD KVM Assembly and then any attached computer. The default password is not required, simply press **Enter** to continue. Refer to the following table for a list of push-button functions available via the LCD monitor.

Table 1.4: Monitor Push-button Functions

Button/LED	Description
AUTO EXIT	Exits from the OSD function or returns to previous menu
SL (+ or -)	Moves the selector right or left on the OSD menu
MENU SELECT	Enables the OSD menu and controls the function to be adjusted
⏻	Turns your Rack Mount LCD KVM Assembly on or off
LED (status light)	Green = On Flashing Green = power save mode or disconnection of signal cable Red = Off

Using the hotkey functions

The 8-port and 16-port version of the Rack Mount LCD KVM Assembly features hotkey commands that allow you to easily access various functions of your assembly. The following table explains the hotkey functions available.

NOTE: To utilize the hotkey functions in the following table, press the **Ctrl** key on the left side of the keyboard twice, then press the keys for the desired command.

Table 1.5: Hotkey Commands and Descriptions

Function	Keystrokes	Description
Port Switch	Left **Ctrl** + Left **Ctrl** + **1-8**	Selects the desired port channel by number (port 1-8)
	Left **Ctrl** + Left **Ctrl** + **F1 - F8**	Selects port channels 9-16
	Left **Ctrl** + Left **Ctrl** + **Up** or **Down Arrow**	The **Up Arrow** selects the next channel; the **Down Arrow** selects the previous channel
Beep	Left **Ctrl** + Left **Ctrl** + **B**	Turns the beep function on or off in Scan Mode (default is on)
Auto Scan	Left **Ctrl** + Left **Ctrl**+ **S**	Allows you to exit Auto Scan by pressing any key
Reset Assembly	Left **Ctrl** + Left **Ctrl** + **R**	Resets the LCD KVM assembly
Reset Mouse	Left **Ctrl** + Left **Ctrl** + **M**	Resets the mouse
Reset Keyboard	Left **Ctrl** + Left **Ctrl** + **K**	Reset the keyboard
OSD Menu	Left **Ctrl** + Left **Ctrl** + **spacebar** (or double-click the right mouse button)	Displays the OSD menu

NOTE: The two consecutive left **Ctrl** keystrokes and the following command key(s) should be pressed within two seconds or the hotkey sequence will not be validated. Port number selections must be made using the numeric keys on the keyboard. Numeric keys on the keypad are not available as hotkey commands.

Accessing and using the OSD menu

Right-click the mouse button twice or press **Ctrl** + **Ctrl** + **Spacebar** to access the following OSD Menu.

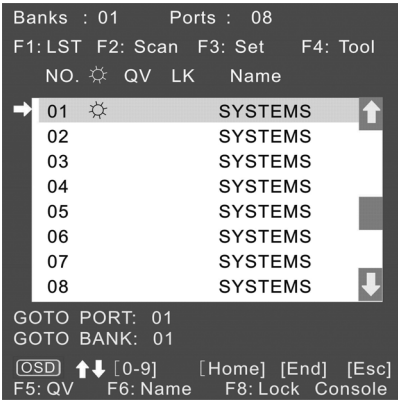

Figure 1.5: OSD Menu

Table 1.6: OSD Menu Key

Heading	Description
NO.	Port numbers
⇨	On line
☼	System on
QV	Quick view
Name	Port name

A single click on the left mouse button allows you to switch to a chosen PC port. Use the up or down arrows to highlight your selection, and then press **Enter** to make your selection.

Table 1.7: OSD Functions

Function	Key	Submenu/Description
LST	F1	All - Lists all ports Power On - Lists only ports that have a PC turned on Quick View - Lists only Quick View ports
Scan	F2	All - Scans all ports Power On - Scans only ports that have a PC turned on Quick View - Scans only Quick View ports
Set	F3	Scan Time - Sets scan time (default = 5 secs.) Port Time - Sets port time (default = 5 secs.) Console PWD - Sets console password (default = **Enter**) Load Default - Sets load default values
Tool	F4	Reset KVM - Press **Enter** to reset the KVM assembly Reset Mouse - Press **Enter** to reset the mouse Reset Keyboard - Press **Enter** to reset the keyboard Mouse On - Default is all ports. Toggle to Mouse Off and press **Enter** to deselect available ports Keyboard On - Default is all ports. Toggle to Keyboard Off and press **Enter** to deselect available ports
QV	F5	Enables or disables Quick View
Name	F6	Displays active port name
Lock Console	F8	Locks your KVM console
Exit	Esc	Allows you to quit the OSD menu

APPENDICES

Appendix A: Product Specifications

Table A.1: Rack Mount LCD KVM Assembly Specifications

LCD	
LCD Type	XGA TFT
Display Area	17”
Resolution	1280 x 1024
Luminance	250 cd/m^2 (T Y P)
Contrast Ratio	800:1 (T Y P)
Back Light	CCFL 2 lamps
Pixels Intervals (mm)	0.264 (H) x 0.264 (W)
LCD MTBF	> 50,000 hour
Power Input	5V DC
Power Consumption	< 40W
LCD OSD key	
OSD Operation button	4 x Touch switches
LCD power source	1 x Sliding switch
Keyboard	
Keys	82 keys + 17 number keys
Support IBM/AT	Supports Windows® Me/NT/2000/XP/7
Interface	PS/2 or USB
MTBF	> 10,000,000 times
Mouse	
X/Y Resolution	>1000 point / inch, (40point/mm)
Hardware interface	PS/2 or USB

Table A.1: Rack Mount LCD KVM Assembly Specifications (Continued)

Wheel	Supports wheel function
Operating System	Supports Windows® Me/NT/2000/XP/7
MTBF	> 10,000,000 times
Assembly (8-port and 16-port versions)	
PC Connection Ports	8 or 16
PC Selection	OSD Menu/Hotkey
Auto Scan Intervals	5-99 Secs
VGA Resolution	1920 x 1440
VGA Bandwidth	200 MHz
Power Supply	
Alternating Current Input (A)	100-240VAC/50-60Hz/<1.5A
MTBF	>60,000 Hrs (25° C)
Dimensions	
Net/Gross Weight	(1 port) 13.69 kg/GW 18.79 kg (8 port) 14.63 kg/GW 19.43 kg (16 port) 14.79 kg/GW 19.59 kg
Unit Dimensions (W x D x H)	448 mm x 545 mm x 43 mm (1 port) 448 mm x 600 mm x 43 mm (8 port) 448 mm x 600 mm x 43 mm (16 port)
Package Size (W x D x H)	765 mm x 615 mm x 185 mm
Temperature	0-45° C (Operating), -20 - 60° C (Storage)
Humidity	0-80%, Non-Condensing

For Technical Support:
www.avocent.com/support

590-940-501C